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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/727,198	12/02/2003	Simon Robert Walmsley	PEA23US	4548
	7590 05/13/200 K RESEARCH PTY L	EXAMINER		
393 DARLING STREET			LE, DINH THANH	
BALMAIN, 2041 AUSTRALIA			ART UNIT	PAPER NUMBER
			2816	
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			05/13/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Occurrence		10/727,198	WALMSLEY, SIMON ROBERT			
	Office Action Summary	Examiner	Art Unit			
		DINH T. LE	2816			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠	Responsive to communication(s) filed on <u>14 Fe</u>	ebruary 2008				
•		action is non-final.				
3)	Since this application is in condition for allowar		secution as to the merits is			
٥,١	closed in accordance with the practice under E	•				
Dispositi	ion of Claims					
· ·	Claim(s) 1 and 3-6 is/are pending in the application	ation				
-	4a) Of the above claim(s) is/are withdraw					
	Claim(s) is/are allowed.	WITHOUT CONSIGNATION.				
•	Claim(s) 1 and 3-6 is/are rejected.					
	Claim(s) <u>rand 3-0</u> is/are rejected.  Claim(s) is/are objected to.					
-	Claim(s) are subject to restriction and/o	r election requirement				
اـــا(٥	are subject to restriction and/o	r election requirement.				
Applicati	on Papers					
9)	The specification is objected to by the Examine	r.				
10)	The drawing(s) filed on is/are: a)☐ acc	epted or b) $\square$ objected to by the ${ t E}$	Examiner.			
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	∋ 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).			
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority ι	ınder 35 U.S.C. § 119					
a)	<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
2) Notice (3) Inform	t(s) te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte			

FINAL REJECTION

Claims Rejections

Claim Rejections - 35 USC § 112

Claims 1 and 3-6 remain rejected under 35 U.S.C. 112, first paragraph, as failing to comply with

the enablement requirement. The claim(s) contains subject matter which was not described in

the specification in such a way as to enable one skilled in the art to which it pertains, or with

which it is most nearly connected, to make and/or use the invention. It is not understood how

"the clock filter can prevent output of the clock to a logic circuitry" as recited in claim 1 since

the present specification does not disclose or shows in detail anything about how the filter can

prevent the system clock. Clarification is required.

Claims 1 and 3-6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for

failing to particularly point out and distinctly claim the subject matter which applicant

regards as the invention. Correction or clarification is required.

In claim 1, it is not understood what the "logic circuitry" is, how the filter can "prevent" the

system clock when it is not connected to anything and how the recitation "the filter to prevent

output of the system clock", "logic circuitry", "sensor" and "system clock" is read on the

preferred embodiment. Insofar as understood, no such filter, circuitry and clock are seen on

the drawings.

The remaining claimed are dependent from claim 1 and therefore also considered indefinite.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claim 1 is rejected under 35 USC 102 (e) as being anticipated by Uchida et al (US 6,731,919).

As the best construed, Uchida et al discloses in Figure 1 a circuit comprising:

a clock filter (4, 18) configured to determine a detect an under temperature condition of the integrated circuit, at which the temperature is below a predetermined temperature, and to alter an output of the system clock (8) in the event that under temperature condition is below a predetermined temperature, see 1-11, column 10.

Claim 1 is rejected under 35 USC 102 (e) as being anticipated by Yamazaki (JP409212254)

As the best construed, Yamazaki discloses in Figure 1 a circuit comprising:

a clock filter (1-3) configured to determine a detect an under temperature condition of the

alter an output of the system clock (7) in the event that under temperature condition is below

integrated circuit (8), at which the temperature is below a predetermined temperature, and to

a predetermined temperature.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 and 3-6 are rejected under 35 U.S.C. 103 (a) as being unpatentable over Chemla (U.S Patent No. 5,805,403) in view of Yamazaki (JP409212254)...

As the best construed, Chemla discloses in figs. 1-5 an integrated circuit temperature monitoring and protection system including: an on-board system clock (CLOCK), the integrated circuit (10) including a clock filter (20) configured to determine a temperature of the integrated circuit (60 determine a temperature for the integrated circuit 10) and to alter an output of the system clock (CLOCK).

Regarding claim 3, altering the output includes preventing the clock signal from reaching one or more logical circuits on the integrated circuit to which it would otherwise be applied (when switch 46 is open).

Regarding claim 4, the predetermined temperature range is selected such that a temperature-related speed of the system clock output that is not due to the clock filter is within a predetermined frequency range (inherently seen in the abstract and the summary of the Chemla's reference).

Regarding claim 5, the frequency range is within an operating frequency of some or all of the logic circuitry to which the system clock is supplied (inherently seen in the abstract and the summary of the Chemla's reference).

Regarding claim 6, the temperature range is bounded at a lower level such that an output of the system clock is prevented from reaching some or all of the logic circuitry prior to race conditions due to low temperature causing unpredictable logical behavior (see cols. 3-6).

However, Chmla does not disclose that the detected temperature is below a predetermined temperature.

Nevertheless, Yamazaki suggests in Figure 1 a detection circuit (3, 2, 1) for detecting a temperature of the chip (8) below a predetermined temperature to improve reliability by stabilizing clock margin, see the Abstract.

It would have been obvious to a person having skill in the art at the time the invention was made to incorporate the suggestion of Yamazaki into the circuit of Chemla for the purpose of detecting the temperature below a predetermined temperature to stabilize the clock margin.

Claims 1 and 3-6 are, insofar as understood, rejected under 35 U.S.C. 103(a) as being unpatentable over Kitano (U.S Patent No. 5,870,267) in view of Yamazaki (JP409212254).

Kitano discloses in Figs. 1-2 a semiconductor integrated circuit device including: the integrated circuit (Fig. 1) including an on-board system clock (CK, Fig. 2), the integrated circuit (Fig. 1) including a clock filter (4) configured to determine a temperature of the integrated circuit (Fig. 1) and to alter an output of the system clock (CK) based on the temperature as recited in claim 1. See the abstract, lines 6 - last line.

Regarding claims 3-6, figs. 1-2 of Kitano is capable of performing the function as recited in these claims. See col. 5, lines 8-21.

However, Kitano does not disclose that that the detected temperature is below a predetermined temperature.

Nevertheless, Yamazaki suggests in Figure 1 a detection circuit (3, 2, 1) for detecting a temperature of the chip (8) below a predetermined temperature to improve reliability by stabilizing clock margin, see the Abstract.

It would have been obvious to a person having skill in the art at the time the invention was made to incorporate the suggestion of Yamazaki into the circuit of Kitano for the purpose of detecting the temperature below a predetermined temperature to stabilize the clock margin.

## Response to Applicant's Arguments

The applicant argues that the subject matter of pending independent claim 1 and claims 3-6 dependent therefrom, is enabled by the description of the present specification and is clear, because the operation and structure of the filter, circuitry and clock of the claimed invention are clearly described at paragraphs [8088]-[8090], [8136] and [8157]-[8164] and illustrated in Figs. 389-392 and 411 of the present application. The arguments are not persuasive because, as understood, the paragraphs 8088]-[8090], [8136] and [8157]-[8164] and illustrated in Figs. 389-392 and 411 of the present application do not disclose or show the clock filter for detecting the temperature and prevent output of the clock to a logic circuitry as claimed.

The applicant argues that the subject matter of amended independent claim 1, and claims 4-6 dependent therefrom, is not disclosed or suggested by any one or more of Uchida, Yamazaki, Chemla and Kitano, for at least the reasons previously submitted by the

Applicant. The arguments are not persuasive because, as stated in the outstanding Office Action, the applicant's arguments of that both Uchida and Yamazaki specifically disclose increasing clock signal frequency when decreased operating temperatures are detected (see col. 4, line 50-col. 6, line 14 of Uchida, and abstract and paragraph [0039] of Yamazaki), which is contrary to the operation recited in the claimed invention. Further, both Chemla and Kitano only disclose stopping a clock signal within an integrated circuit when an over temperature conditions is detected (see col. 3, line 48-col. 4, line 44 of Chemla, and col. 5, line 8-52 of Kitano). The arguments are not persuasive because the arguments are based on the unclear recited limitation, i.e., "the filter prevent output of the system clock" as stated above. Thus, the rejected claims remain readable on the Uchita, Yamazaki, Chemla and Kitako references.

## Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to DINH T. LE whose telephone number is (571) 272-1745. The

examiner can normally be reached on Monday-Friday (8AM-7PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Drew Richards, can be reached at (571) 272-1736.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/DINH T. LE/

Primary Examiner, Art Unit 2816

Application Number

Application/Control No.	Applicant(s)/Patent under Reexamination	
10/727,198	WALMSLEY, SIMON ROBERT	
Examiner	Art Unit	
DINH T. I.E.	2816	